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DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ

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DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ

L1 (cathepsin s or cats or cat-s) same crystal same x-ray and human 12

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1. Document ID: US 6988041 B2

L1: Entry 1 of 12

File: USPT

Jan 17, 2006

US-PAT-NO: 6988041

DOCUMENT-IDENTIFIER: US 6988041 B2

TITLE: Crystallization and structure determination of *Staphylococcus aureus* NAD synthetase

DATE-ISSUED: January 17, 2006

PRIOR-PUBLICATION:

| | |
|-------------------|-------------------|
| DOC-ID | DATE |
| US 20030166233 A1 | September 4, 2003 |

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|-----------|-------|----------|---------|
| Benson; Timothy E. | Kalamazoo | MI | | US |
| Prince; Donald Bryan | Parchment | MI | | US |

US-CL-CURRENT: 702/27; 435/4

ABSTRACT:

An unliganded form of *Staphylococcus aureus* NAD synthetase (*S. aureus* NadE) has been crystallized, and the three-dimensional x-ray crystal structure has been solved to 2.3 .ANG. resolution. The x-ray crystal structure is useful for solving the structure of other molecules or molecular complexes, and designing inhibitors of *S. aureus* NadE activity.

16 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Drawn D](#)

2. Document ID: US 6950757 B2

L1: Entry 2 of 12

File: USPT

Sep 27, 2005

US-PAT-NO: 6950757

DOCUMENT-IDENTIFIER: US 6950757 B2

TITLE: Screening methods for identifying ligands

DATE-ISSUED: September 27, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------------|-------|----------|---------|
| Stewart; Lansing J. | Bainbridge Island | WA | | |

US-CL-CURRENT: 702/27; 117/11, 435/6, 435/7.1

ABSTRACT:

This invention relates to crystallization based assays for identifying ligands that bind to a macromolecule.

5 Claims, 0 Drawing figures

Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

3. Document ID: US 6927042 B2

L1: Entry 3 of 12

File: USPT

Aug 9, 2005

US-PAT-NO: 6927042

DOCUMENT-IDENTIFIER: US 6927042 B2

**** See image for Certificate of Correction ****

TITLE: Glycoprotein synthesis

DATE-ISSUED: August 9, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Schultz; Peter G. | La Jolla | CA | | |
| Wang; Lei | San Diego | CA | | |
| Zhang; Zhiwen | San Diego | CA | | |

US-CL-CURRENT: 435/69.1; 435/72, 514/8, 530/395

ABSTRACT:

Methods for making glycoproteins, both in vitro and in vivo, are provided. One method involves incorporating an unnatural amino acid into a protein and attaching one or more saccharide moieties to the unnatural amino acid. Another method involves incorporating an unnatural amino acid that includes a saccharide moiety into a protein. Proteins made by both methods can be further modified with additional sugars.

26 Claims, 8 Drawing figures

Exemplary Claim Number: 1
 Number of Drawing Sheets: 5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Serials](#) | [Assignments](#) | [Claims](#) | [KWMC](#) | [Drawn D.](#)

4. Document ID: US 6795776 B1

L1: Entry 4 of 12

File: USPT

Sep 21, 2004

US-PAT-NO: 6795776

DOCUMENT-IDENTIFIER: US 6795776 B1

TITLE: Crystallographic structure of the androgen receptor ligand binding domain

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|---------------|-------|----------|---------|
| Weinmann; Roberto | Lawrenceville | NJ | | |
| Einspahr; Howard M. | Lawrenceville | NJ | | |
| Krystek; Stanley R. | Ringoes | NJ | | |
| Sack; John S. | Lawrenceville | NJ | | |
| Salvati; Mark E. | Lawrenceville | NJ | | |
| Tokarski; John S. | Princeton | NJ | | |
| Attar; Ricardo M. | Lawrenceville | NJ | | |
| Wang; Chihuei | Plainsboro | NJ | | |

US-CL-CURRENT: 702/27; 530/350, 530/399, 552/621

ABSTRACT:

The first crystal structure of the androgen receptor ligand binding domain has been determined to 2.0 angstrom resolution. Disclosed are the coordinates for the crystal structure, and methods for determining agonists, partial agonists, antagonists, partial antagonists and selective androgen receptors modulators (SARMs) of the androgen receptor.

3 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Serials](#) | [Assignments](#) | [Claims](#) | [KWMC](#) | [Drawn D.](#)

5. Document ID: US 6495674 B1

L1: Entry 5 of 12

File: USPT

Dec 17, 2002

US-PAT-NO: 6495674

DOCUMENT-IDENTIFIER: US 6495674 B1

TITLE: Ejectins and their use

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Lemke; Greg Erwin | La Jolla | CA | | |
| Nguyen; Andrew Do | San Diego | CA | | |
| Krappa; Ralf | Tornesch | | | DE |

US-CL-CURRENT: 536/23.5

ABSTRACT:

The present invention relates generally to the field of neurobiology. More particularly, the invention relates to the discovery of a new family of proteins and their relation to signal transduction, vesicle trafficking, and diseases associated with aberrations in membrane biosynthesis and organization.

3 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequenced](#) | [Experimental](#) | [Claims](#) | [KWMC](#) | [Drawn D.](#)

6. Document ID: US 5799059 A

L1: Entry 6 of 12

File: USPT

Aug 25, 1998

US-PAT-NO: 5799059

DOCUMENT-IDENTIFIER: US 5799059 A

TITLE: Phantom and method for accuracy and repeatability testing of positional mechanisms of computer assisted tomography and magnetic resonance imaging systems

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Stembridge; James H. | Columbia | SC | 29223 | |
| Man; Chisum | Brooklyn | NY | 11234 | |

US-CL-CURRENT: 378/207; 378/18

ABSTRACT:

A transparent measuring phantom apparatus and method facilitates rapid testing of the accuracy and repeatability of the scan position mechanisms of patient support table movements of computer assisted tomography (CAT) and magnetic resonance imaging (MRI) systems. The phantom includes clear transparent acrylic sections and radiopaque acrylic numerals which are all adhesively or solvent bonded into the phantom. The phantom includes an acrylic tube enclosing a base plate, a

longitudinally extending slice location bar, a plurality of sequential position indicator numerals and operator position indicator numerals between a pair of end plates. The slice locator bar has an array of slice locator holes. In operation, the long axis of the phantom is aligned with the long axis of table movement that determines the slice location. The slice locator holes are drilled into the slice locator bar in a repeating pattern. Each line of holes includes a deep center hole and a plurality of grade marker holes of lesser depth on each side of the center hole. The grade marker holes are placed on an angle of about 70.5 degrees from the horizontal. An X-ray beam or MRI scan scans through the phantom at any desired location to determine the accuracy of the movement mechanisms of the patent support table relative to the plane of the X-ray beam or MRI scan.

12 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KUMC | Drawn D. |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|

7. Document ID: US 5360557 A

L1: Entry 7 of 12

File: USPT

Nov 1, 1994

US-PAT-NO: 5360557

DOCUMENT-IDENTIFIER: US 5360557 A

TITLE: Hole-trap-compensated scintillator for computed tomography machine

DATE-ISSUED: November 1, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|--------------|-------|----------|---------|
| Tsoukala; Veneta G. | Clifton Park | NY | | |
| Greskovich; Charles D. | Schenectady | NY | | |

US-CL-CURRENT: 250/361R

ABSTRACT:

In a computed tomography machine employing a luminescent material in a scintillator in which a significant factor in afterglow is the release of holes from hole traps in the scintillator material, afterglow in the luminescent material is substantially reduced by adding a hole-trapping species to the scintillator composition which successfully competes with the hole traps in the basic scintillator composition. For a gadolinium gallium garnet scintillator activated with chromium, the addition of cerium reduces afterglow in this manner.

7 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KUMC | Drawn D. |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|

8. Document ID: US 4782840 A

L1: Entry 8 of 12

File: USPT

Nov 8, 1988

US-PAT-NO: 4782840

DOCUMENT-IDENTIFIER: US 4782840 A

TITLE: Method for locating, differentiating, and removing neoplasms

DATE-ISSUED: November 8, 1988

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------|-------|----------|---------|
| Martin, Jr.; Edward W. | Delaware | OH | | |
| Thurston; Marlin O. | Columbus | OH | | |

US-CL-CURRENT: 600/431; 600/436

ABSTRACT:

The present invention is addressed to a method for the improved localization, differentiation, and removal of neoplastic tissue in animals. In particular, one aspect of the present invention involves a surgical procedure wherein an animal suspected of containing neoplastic tissue is surgically accessed and the tissue therein examined visually and by palpation for evidence of neoplastic tissue. The improved methodology commences with the administering to the animal of an effective amount of a labelled antibody specific for neoplastic tissue and labelled with a radioactive isotope exhibiting specific photon emissions of energy levels. Next, and importantly, the surgical procedure is delayed for a time interval following said administering for permitting the labelled antibody to preferentially concentrate in any neoplastic tissue present in the animal so as to increase the ratio of photon emissions from neoplastic tissue to background photon emissions in said animal. Thereafter, an operative field of the animal is surgically accessed and tissue within the operative field to be examined for neoplastic tissue has the background photon emission count determined. Once the background photon emission account for tissue within the operative field has been determined, a handheld probe is manually positioned within the operative field adjacent tissue suspected of being neoplastic. The probe is configured for facile hand positioning and maneuvering within the operative field of the animal. The probe is characterized by having a collimatable radiation detector having a selective photon entrance and having an output deriving discrete signals responsive to photon emissions when said entrance is positioned immediately adjacent thereto. The probe further comprises amplifier means having an input coupled with said radiation detector output and responsive to said discrete signals to provide corresponding amplified output pulses. Finally, the probe comprises readout means responsive to said output pulses and actuatable to an initial condition for commencing the provision of a perceptible indication of an indicia corresponding to the number of said output pulses received. From the perceptible indication, the extent of tissue exhibiting a number of output pulses having a value above background output pulses is determined and such determined tissue removed surgically. Thereafter, the probe is manually positioned adjacent tissue surrounding the surgically removed tissue to determine from said perceptible indication whether any of said surrounding tissue still exhibits a number of output pulses having a value above said background output pulses. Any adjacent tissue surrounding the initial surgically removed tissue which does exhibit an increased number of output pulses is surgically removed additionally. Thereafter, the margins again are examined with the probe in order to

ensure that all tissue exhibiting a number of output pulses having a value above the background output pulses has been removed.

20 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Print](#) | [Claims](#) | [KMIC](#) | [Drawn D.](#)

9. Document ID: US 4782081 A

L1: Entry 9 of 12

File: USPT

Nov. 1, 1988

US-PAT-NO: 4782081

DOCUMENT-IDENTIFIER: US 4782081 A

TITLE: Compounds and methods useful for the synthesis of thromboxane A₂.sub.2

DATE-ISSUED: November 1, 1988

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|---------------|-------|----------|---------|
| Still; W. Clark | New York | NY | | |
| Hamann; Philip R. | Pearl River | NY | | |
| Bhagwat; Shripad S. | Scotch Plains | NJ | | |

US-CL-CURRENT: 514/450

ABSTRACT:

Compounds having the structure: ##STR1## wherein X may be hydrogen, bromine, chlorine, fluorine or iodine are provided, together with methods for synthesizing these compounds, pharmaceutical compositions and use thereof for reducing vascular blood flow.

Also provided are compounds having the structure: ##STR2## wherein X may be bromine, chlorine, fluorine or iodine, together with methods for preparing the compounds, pharmaceutical compositions and use thereof for reducing vascular blood flow.

2 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Print](#) | [Claims](#) | [KMIC](#) | [Drawn D.](#)

10. Document ID: US 4672131 A

L1: Entry 10 of 12

File: USPT

Jun 9, 1987

US-PAT-NO: 4672131

DOCUMENT-IDENTIFIER: US 4672131 A

TITLE: Compounds and methods useful for the synthesis of thromboxane A₂ sub.2

DATE-ISSUED: June 9, 1987

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|----------|-------|----------|---------|
| Still; W. Clark | New York | NY | | |
| Hamann; Philip R. | New York | NY | | |
| Bhagwat; Shripad S. | New York | NY | | |

US-CL-CURRENT: 549/268; 549/269, 549/363

ABSTRACT:

Compounds having the structure: ##STR1## wherein X may be hydrogen, bromine, chlorine, fluorine or iodine are provided, together with methods for synthesizing these compounds, pharmaceutical compositions and use therof for reducing vascular blood flow.

Also provided are compounds having the structure: ##STR2## wherein X may be bromine, chlorine, fluorine or iodine, together with methods for preparing the compounds, pharmaceutical compositions and use thereof for reducing vascular blood flow.

2 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Derwent](#) | [Assignments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

11. Document ID: US 20030232407 A1

L1: Entry 11 of 12

File: DWPI

Dec 18, 2003

DERWENT-ACC-NO: 2004-052170

DERWENT-WEEK: 200405

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TITLE: Novel receptors T1R1 and T1R3 that respond to umami taste stimuli and receptors T1R2 and T1R3 that respond to sweet taste stimuli, useful for identifying modulators which are used for modifying taste sensation in animals

INVENTOR: ADLER, J E; ECHEVERRI, F ; LI, X ; O'CONNELL, S ; STASZEWSKI, L ; XU, H ; ZOLLER, M ; ZOZULYA, S

PRIORITY-DATA: 2002US-0179373 (June 26, 2002), 2001US-300434P (June 26, 2001), 2001US-304749P (July 13, 2001), 2001US-310493P (August 8, 2001), 2001US-331771P (November 21, 2001), 2001US-339472P (December 14, 2001), 2002US-372090P (April 15, 2002), 2002US-374143P (April 22, 2002), 2002US-374522P (April 23, 2002)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|--------------------------|-------------------|----------|-------|-------------|
| <u>US 20030232407 A1</u> | December 18, 2003 | | 055 | C07K014/705 |

INT-CL (IPC): C07H 21/04; C07K 14/705; C12N 5/06; C12P 21/02

ABSTRACTED-PUB-NO: US20030232407A

BASIC-ABSTRACT:

NOVELTY - A receptor (I) comprised of at least one T1R1 polypeptide and/or at least one T1R3 polypeptide (or a variant, fragment, or chimera of the polypeptides); or a receptor (II) comprised of at least one T1R2 polypeptide and/or at least one T1R3 polypeptide (or a variant, fragment, or chimera of the polypeptides), where (I) and (II) specifically bind to and/or are activated by umami or sweet taste stimuli, respectively, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a composition (III) that contains (I) or (II);
- (2) a cell (IV) that expresses (I) or (II);
- (3) modifying (M1) taste sensation in an animal using compounds identified using (I) or (II);
- (4) modifying (M2) taste sensation in an animal using compounds identified using (IV);
- (5) quantifying the taste of individual compounds or food or beverage compositions using a cell that stably expresses a heterologous nucleic acid sequence encoding at least one T1R;
- (6) a cell line (V) which inducibly expresses the human T1R1/T1R3 umami taste receptor or the T1R2/T1R3 sweet taste receptor;
- (7) inhibiting (M3) the T1R1/T1R3 umami taste receptor involves contacting the receptor with the taste inhibitor that also inhibits both the T1R1/T1R3 taste receptor and T1R2/T1R3 taste receptor; and
- (8) identifying (M4) compounds that modulate the T1R1/T1R3 umami taste receptor by screening for compounds that compete with lactisole for binding to and/or inhibiting the T1R1/T1R3 umami taste receptor.

USE - (I) or (II) is useful for identifying compounds that modulate taste perception, where the method involves identifying compounds that bind to, activate, inhibit, enhance and/or modulate one or more of (I) or (II). (I) or (II) is bound to a solid-phase, is in solution, or is in a lipid bilayer or vesicle. The method uses a receptor-binding assay or activity-based assay to identify the compound, or uses an assay for second messengers such as cAMP or IP3. Preferably, the receptor is expressed in a cell, where the compound is identified by its effect on receptor internalization, receptor phosphorylation, or arrestin translocation and uses a voltage-sensitive or calcium-sensitive dye. The cell expresses at least one G protein such as promiscuous G protein e.g., G(alpha 15) or G(alpha 16). The receptor is optionally expressed using a viral vector that is expressed in a mammalian cell. The receptor is also produced by in vitro translation and is isolated in a membrane-bound form. The compound is identified by its effect on receptor conformation, where the conformation change is detected by altered susceptibility to proteolysis, NMR spectroscopy, or fluorescence spectroscopy. The compound is identified by its effect on binding of a radioactively or fluorescently

labeled ligand to the receptor, where the displacement of the labeled compound is determined by fluorescence polarization or FRET assay. The method is a high-throughput screening assay, and the receptor activity is linked to a reporter gene such as luciferase, alkaline phosphatase, beta -galactosidase, or beta -lactamase. The receptor is constitutively active variant, and is under the control of a constitutive promoter or regulated promoter. The receptor is fused to a peptide that facilitates surface expression, where the peptide is a PDZ-domain-interacting peptide. The effect of the compound on the receptor is predicted based on the X-ray crystal structure of the receptor and the compound is identified by its effect on a non-human animal (mouse, rat, worm, fish, or insect) expressing native or transgenic T1R receptors, where the compound is identified by its effect on behavior, or its effect on taste receptor cells. The compound is identified by its effect on a yeast cell expressing the receptor and is identified from a combinatorial library of compounds, peptide library, or randomized library of small molecules. (I) or (II) is useful for quantifying the taste of individual compounds or food or beverage compositions. (IV) stably expressing (I) or (II) is useful for identifying compounds that modulate taste perception, where the method involves identifying compounds that bind to, activate, inhibit and/or modulate a receptor expressed by a cell that stably expressed by (IV). The cell is bound to a solid-phase, or is in solution. (V) is useful for identifying a compound that agonizes or antagonizes the T1R1/T1R3 receptor or T1R2/T1R3 receptor. The assay is a binding assay or a high-throughput screening assay or a fluorometric assay. The method screens for a compound that competes with L-glutamate or L-aspartate for binding to the T1R1/T1R3 umami taste receptor, and is a high throughput screening assay that uses automated fluorometric imaging instrumentation. The method is used to screen a compound library for compounds that enhance or modulate the activity of L-glutamate to activate the T1R1/T1R3 umami taste receptor, or to screen a compound library for compounds that agonize or antagonize the T1R1/T1R3 sweet taste receptor. The method screens for a compound that competes with IMP, GMP or their analogs for binding to the T1R1/T1R3 umami taste receptor. The method is used to screen a compound library for compounds that mimic the activity of IMP, GMP or their analogs that enhance the activity of a T1R1/T1R3 agonist or is used to screen a compound library for compounds that enhance or modulate the activity of a sweetener to activate the T1R2/T1R3 sweet taste receptor. (M1) or (M2) is useful for modifying umami taste or sweet taste sensation in an animal such as human, dog, cat, fish, cow, sheep or pig. The compound is formulated in a food, beverage, or oral pharmaceutical composition (all claimed).

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

12. Document ID: US 3281331 A

L1: Entry 12 of 12

File: USOC

Oct 25, 1966

US-PAT-NO: 3281331

DOCUMENT-IDENTIFIER: US 3281331 A

TITLE: Process of isolating and separating proteolytic enzymes

DATE-ISSUED: October 25, 1966

INVENTOR-NAME: ROLF BERGKVIST

US-CL-CURRENT: 435/225; 424/94.63, 424/DIG.13, 435/815, 435/918

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

Terms

(cathepsin s or cats or cat-s) same crystal
same x-ray and human

Documents

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1. Document ID: US 20060078974 A1

L3: Entry 1 of 19

File: PGPB

Apr 13, 2006

PGPUB-DOCUMENT-NUMBER: 20060078974

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060078974 A1

TITLE: Novel purified hydroxymethylglutaryl-CoA reductases and structures thereof

PUBLICATION-DATE: April 13, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|---------------|-------|---------|
| Edwards; Aled | Toronto | | CA |
| Dharamsi; Akil I. | Richmond Hill | | CA |
| Fiebig; Klaus M. | Toronto | | CA |
| Lam; Robert | Toronto | | CA |

US-CL-CURRENT: 435/189; 702/19

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMPC | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

2. Document ID: US 20060073582 A1

L3: Entry 2 of 19

File: PGPB

Apr 6, 2006

PGPUB-DOCUMENT-NUMBER: 20060073582

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060073582 A1

TITLE: Rab9 protein crystal structures and methods for identifying Rab9 modulators

PUBLICATION-DATE: April 6, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------------|------------|-------|---------|
| Meehan; Edward J. | Huntsville | AL | US |
| Chen; Liqing | Huntsville | AL | US |
| DiGiammarino; Enrico L. | Woodstock | GA | US |
| Hodge; Thomas W. | Athens | GA | US |

US-CL-CURRENT: 435/194; 702/19

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D. |
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 3. Document ID: US 20060029184 A1

L3: Entry 3 of 19

File: PGPB

Feb 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060029184

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060029184 A1

TITLE: High-throughput methods for determining electron density distributions and structures of crystals

PUBLICATION-DATE: February 9, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|-------------|-------|---------|
| Lin; Dawei | Athens | GA | US |
| Liu; Zhi-Jie | Athens | GA | US |
| Praissman; Jeremy | Athens | GA | US |
| Rose; John P. | Winterville | GA | US |
| Tempel; Wolfram | Toronto | GA | CA |
| Wang; Bi-Cheng | Athens | | US |

US-CL-CURRENT: 378/73

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 4. Document ID: US 20050266526 A1

L3: Entry 4 of 19

File: PGPB

Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050266526

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050266526 A1

TITLE: Glycoprotein synthesis

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|-----------|-------|---------|
| Schultz, Peter G. | La Jolla | CA | US |
| Wang, Lei | San Diego | CA | US |
| Zhang, Zhiwen | San Diego | CA | US |

US-CL-CURRENT: 435/69.1; 530/322, 530/395

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

5. Document ID: US 20050186636 A1

L3: Entry 5 of 19

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050186636

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050186636 A1

TITLE: Method of rational-based drug design using osteocalcin

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|-----------|-------|---------|
| Yang, Daniel S.C. | Dundas | | CA |
| Hoang, Quyen | Brantford | | CA |

US-CL-CURRENT: 435/7.1; 702/19

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D. |
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6. Document ID: US 20050037476 A1

L3: Entry 6 of 19

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050037476

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050037476 A1

TITLE: Modified Weel, crystals of peptide: inhibitor complexes containing such modified Weel, and methods of use thereof

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------------------|------------|-------|---------|
| Baker, Edward Neill | Takapuna | MI | NZ |
| Booth, Richard John | Ann Arbor | MI | US |
| Kraker, Alan J. | Ann Arbor | MI | US |
| Ortwine, Daniel Fred | Saline | | US |
| Dickson, James Michael Jeremy | Beachhaven | | NZ |
| Ivanovic, Ivan | Ellerslie | | NZ |
| Squire, Christopher John | Devonport | | NZ |

US-CL-CURRENT: 435/184; 435/199, 702/19

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D. |
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7. Document ID: US 20050003502 A1

L3: Entry 7 of 19

File: PGPB

Jan 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050003502

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050003502 A1

TITLE: Structures and methods for designing topoisomerase I inhibitors

PUBLICATION-DATE: January 6, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|-------------------|-------|---------|
| Burgin, Alex | Bainbridge Island | WA | US |
| Hjerrild, Kathyrn | Bainbridge Island | WA | US |
| Kim, Hidong | Bainbridge Island | WA | US |
| Staker, Bart Lee | Kingston | WA | US |
| Stewart, Lance | Bainbridge Island | WA | US |
| Behnke, Craig | Shoreline | WA | US |
| Feeze, Michael | Seattle | WA | US |

US-CL-CURRENT: 435/184; 702/19

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#) 8. Document ID: US 20040243316 A1

L3: Entry 8 of 19

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040243316

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040243316 A1

TITLE: Crystallographic structure of the androgen receptor ligand binding domain

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---------------------|---------------|-------|---------|
| Weinmann, Roberto | Lawrenceville | NJ | US |
| Einspahr, Howard M. | Lawrenceville | NJ | US |
| Krystek, Stanley R. | Ringoes | NJ | US |
| Sack, John S. | Lawrenceville | NJ | US |
| Salvati, Mark E. | Lawrenceville | NJ | US |
| Tokarski, John S. | Princeton | NJ | US |
| Attar, Ricardo M. | Lawrenceville | NJ | US |
| Wang, Chihuei | Plainsboro | NJ | US |

US-CL-CURRENT: 702/19; 435/7.1, 530/350

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|---------------------|--------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Drawn D. |
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 9. Document ID: US 20040209344 A1

L3: Entry 9 of 19

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040209344

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040209344 A1

TITLE: Crystal structure of angiotensin-converting enzyme-related carboxypeptidase

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------------|------------|-------|---------|
| Pantoliano, Michael W. | Boxford | MA | US |
| Ryan, M. Dominic | Littleton | MA | US |
| Staker, Bart Lee | Kingston | WA | US |
| Prasad, G. Sridhar | San Diego | CA | US |
| Tang, Jin | Canton | MA | US |
| Menon, Saurabh Prabhakar | Medford | MA | US |
| Towler, Paul S. | Gloucester | MA | US |
| Williams, David H. | London | | GB |
| Fisher, Martin | Wakefield | | GB |

US-CL-CURRENT: 435/226; 702/19

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|---------------------|--------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Drawn D. |
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 10. Document ID: US 20040171075 A1

L3: Entry 10 of 19

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171075

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040171075 A1

TITLE: Modulation of protein functionalities

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|-----------|-------|---------|
| Flynn, Daniel L. | Lawrence | KS | US |
| Petillo, Peter A. | Arlington | MA | US |

US-CL-CURRENT: 435/7.1; 702/19

| | | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-----------------------|--------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn | De |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-----------------------|--------------------|

 11. Document ID: US 20040138106 A1

L3: Entry 11 of 19

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040138106

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040138106 A1

TITLE: Glycoprotein synthesis

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|-----------|-------|---------|
| Schultz, Peter G. | La Jolla | CA | US |
| Wang, Lei | San Diego | CA | US |
| Zhang, Zhiwen | San Diego | CA | US |

US-CL-CURRENT: 514/8; 530/395

| | | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-----------------------|--------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn | De |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-----------------------|--------------------|

 12. Document ID: US 20030224500 A1

L3: Entry 12 of 19

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030224500

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030224500 A1

TITLE: Modified MEK1 and MEK2, crystal of a peptide: ligand: cofactor complex containing such modified MEK1 or MEK2, and methods of use thereof

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|------------------------------|-------------|-------|---------|
| Ohren, Jeffrey F. | Saline | MI | US |
| Chen, Huifen | Plymouth | MI | US |
| Delaney, Amy Marie | Belleville | MI | US |
| Dudley, David Thomas | Ann Arbor | MI | US |
| Hasemann, Charles A. JR. | Williamston | MI | US |
| Kuffa, Peter | Ann Arbor | MI | US |
| McConnell, Patrick C. | Ann Arbor | MI | US |
| Pavlovsky, Alexander Gregory | Ann Arbor | MI | US |
| Tecle, Haile | Ann Arbor | MI | US |

| | | | |
|---------------------------|-----------|----|----|
| Whitehead, Christopher E. | Ypsilanti | MI | US |
| Yan, Chunhong | Ann Arbor | MI | US |
| Zhang, Erli | Canton | MI | US |

US-CL-CURRENT: 435/194; 702/19

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13. Document ID: US 20030211538 A1

L3: Entry 13 of 19

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211538
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030211538 A1

TITLE: CAP-Gly domain structure and uses thereof

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

| | | | |
|-----------|----------------|-------|---------|
| NAME | CITY | STATE | COUNTRY |
| Luo, Ming | Vestavia Hills | AL | US |

US-CL-CURRENT: 435/7.1; 530/350, 702/19

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

14. Document ID: US 20030175906 A1

L3: Entry 14 of 19

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175906
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030175906 A1

TITLE: Nuclease resistant chimeric oligonucleotides

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

| | | | |
|-----------------------------|--------------|-------|---------|
| NAME | CITY | STATE | COUNTRY |
| Manoharan, Muthiah | Carlsbad | CA | US |
| Maier, Martin A. | Carlsbad | CA | US |
| Prakash, Thazha P. | Carlsbad | CA | US |
| Rajeev, Kallanthottathil G. | Solana Beach | CA | US |

US-CL-CURRENT: 435/91.2; 536/23.1

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn D |
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15. Document ID: US 20030166233 A1

L3: Entry 15 of 19

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166233

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166233 A1

TITLE: Crystallization and structure determination of staphylococcus aureus NAD synthetase

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|----------------------|-----------|-------|---------|
| Benson, Timothy E. | Kalamazoo | MI | US |
| Prince, Donald Bryan | Parchment | MI | US |

US-CL-CURRENT: 435/200; 702/19

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn D |
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16. Document ID: US 20030158403 A1

L3: Entry 16 of 19

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158403

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158403 A1

TITLE: Nuclease resistant chimeric oligonucleotides

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------------------|--------------|-------|---------|
| Manoharan, Muthiah | Carlsbad | CA | US |
| Maier, Martin A. | Carlsbad | CA | US |
| Prakash, Thazha P. | Carlsbad | CA | US |
| Rajeev, Kallanthottathil G. | Solana Beach | CA | US |

US-CL-CURRENT: 536/25.3; 435/6

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn D |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|-------------------------|

17. Document ID: US 20030143714 A1

L3: Entry 17 of 19

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143714
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143714 A1

TITLE: Crystal structure of a mutant of cathepsin S enzyme

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|------------------------|-----------|-------|---------|
| Lamers, Marieke B.A.C. | Cambridge | | GB |
| Williams, David H. | Cambridge | | GB |
| Turkenburg, Johan P. | York | | GB |
| Hubbard, Roderick E. | York | | GB |

US-CL-CURRENT: 435/226; 702/19

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

18. Document ID: US 20030138432 A1

L3: Entry 18 of 19

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138432
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030138432 A1

TITLE: Selective cellular targeting: multifunctional delivery vehicles, multifunctional prodrugs, use as antineoplastic drugs

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------|--------|-------|---------|
| Glazier, Arnold | Newton | MA | US |

US-CL-CURRENT: 424/178.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

19. Document ID: US 20020197628 A1

L3: Entry 19 of 19

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197628
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020197628 A1

TITLE: Screening methods for identifying ligands

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

| | | | |
|---------------------|-------------------|-------|---------|
| NAME | CITY | STATE | COUNTRY |
| Stewart, Lansing J. | Bainbridge Island | WA | US |

US-CL-CURRENT: 435/6; 435/7.1, 702/19

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KNC](#) | [Drawn D](#)

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| Terms | Documents |
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